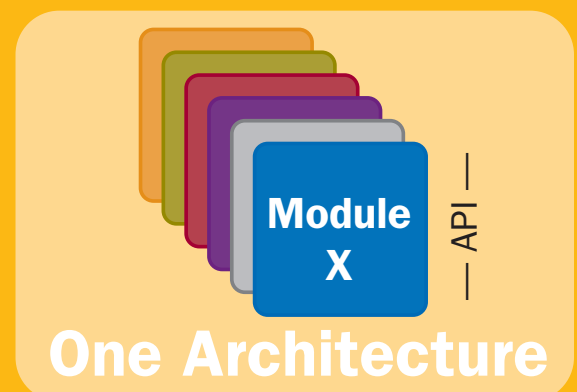
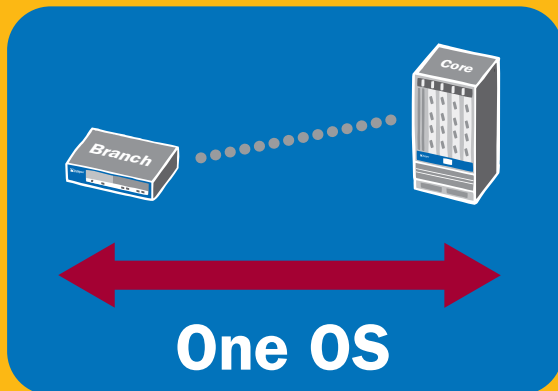


High-Performance Networking for the Enterprise with JUNOS Software

Using the Network to Achieve Higher Availability, Lower OPEX and Improved Productivity for Your Business



JUNOS Software in the High-Performance Enterprise

Today's successful enterprise is powered by the performance of its business network. Companies that have built a reliable, secure and flexible network foundation are experiencing streamlined operations, achieving competitive innovation, adding high-value services, and facilitating collaboration between personnel and business units. For high-performance businesses, the network is critical to achieving revenue growth and productivity gains.

JUNOS™ software supports the high-performance enterprise with a modular design that scales across Juniper Networks switching and routing platforms, providing a single-source operating system for day-to-day business tasks while protecting existing infrastructure investments. Offering a strategic array of features and functionalities on a regular development schedule, JUNOS software allows businesses to enhance operational stability, increase the speed of applications and services, and plan for long-term IT capabilities.

JUNOS software also significantly impacts business performance by improving operational productivity and processes. For example, a recent survey of more than 120 network operators found that many JUNOS software customers spend an average of 25 percent less time on common network operational tasks compared to those using competitive systems. Further, they report an average time reduction of 54 percent in troubleshooting and unplanned events.

JUNOS software forms the foundation of today's high-performance networks, helping companies achieve success in an often-challenging business environment. By providing continuous systems, automated operations and accelerated innovation, this powerful network operating system supports rapid growth and offers a key competitive advantage for the enterprise.

Challenges

Most IT organizations are under pressure to shift spending from basic business functionality to projects that provide High Availability (HA) and network uptime that include automated and streamlined operations. Given the potential consequences of downtime, including a decline in corporate reputation and loss of customers, it is not surprising that 70 percent of the average IT budget is spent just on keeping the network running.

To improve their strategic focus, network administrators are looking for new ways to cut costs without increasing risk or sacrificing quality. This challenge is greatest in systems based on legacy designs with high operational support needs. While old hardware and outdated or poorly integrated technologies contribute to this problem, the software running in legacy networks is often the greatest obstacle. An old OS can slow or even prevent deployment of strategic applications, such as voice-over-IP (VoIP), streaming video, instant messaging (IM) and other increasingly universal tools. It also adds needless complexity, consuming resources that can be better utilized in mission-critical projects that impact the enterprise's top and bottom line.

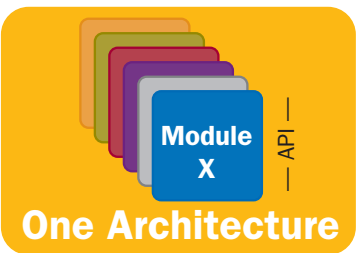
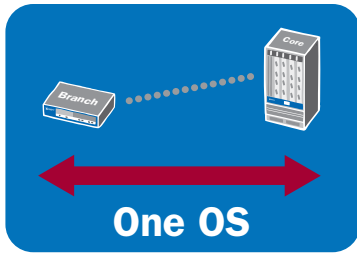
Additionally, the common practice of relying upon a proprietary network vendor leaves companies tied to a single pace of innovation, all too often on an inefficient operating system and wholly at risk if missteps or problems occur. Companies need to be able to deliver strategic and tactical business results with a network operating system that allows them to take full advantage of best-of-breed solutions, while offering a robust architecture that maximizes network uptime as well as protecting against malicious incidents and system failure.

JUNOS Software: The Strategic Choice for the Enterprise

JUNOS software provides the infrastructure to meet all of these challenges with a highly available, secure and flexible foundation for high-performance networking. Used by a broad range of businesses, JUNOS software offers key strategic advantages that have helped make these companies into industry leaders:

- *Continuous systems* improve the availability and delivery of services through high-performance software design and availability features, supported by tools that double-check and mitigate human error and enable proactive operations functions.
- *Automated operations* drive efficiency to lower expense and risk of error by simplifying the system, including a single implementation of critical features, error-resilient configurations, scripts to automate operations tasks, and simplified upgrades.
- *Accelerated innovation* enhances business agility to allow rapid, error-free upgrades and improve productivity, based on an open, standards-based design that includes advanced software and tools to support rapidly changing needs.

Unlike any other network operating system available, JUNOS software offers one operating system, enhanced through one release, and developed based on one modular architecture—the “1-1-1 advantage.”



JUNOS software: Consistent,
Predictable, Available

One Operating System

JUNOS software has remained a single, cohesive operating system throughout its development, based on a single code source. This allows network administrators to configure and manage features from chassis to routing using the same tools across devices to monitor, manage and update the entire network. This powerful interoperability simplifies new feature deployment, software upgrades and other modifications, allowing IT teams to function more efficiently with less training time and lower costs.

One Release Train

JUNOS software is supported by a single “release train”—a disciplined plan for development that supports stable implementation of new features based on rigid quality metrics and testing. Each new version forms a complete superset of the prior release, guaranteeing that earlier features are still present and working. In addition, each new version is released concurrently for all routers and switches. This helps to avoid the unpredictability, risk of business disruption, expensive testing, and complexity of unplanned maintenance and upgrades.

One Modular Architecture

JUNOS software is based on a modular architecture designed for flexible but stable innovation across many types of hardware platforms, supporting streamlined development as well as enhanced fault-tolerance and failover. This advanced design supports HA by isolating potential incidents for faster troubleshooting and resolution, ensuring uptime while restricting the spread of malicious code or messages.

JUNOS Software in Juniper’s Routing and Switching Platforms

The JUNOS operating system spans Juniper’s high-performance routing and switching platforms, providing a consistent end-to-end IP infrastructure for strategic applications and services. With standards-based products based on the same operating system and connecting branch, regional offices, data centers and headquarters, Juniper switching and routing solutions provide unmatched consistency and reliability.

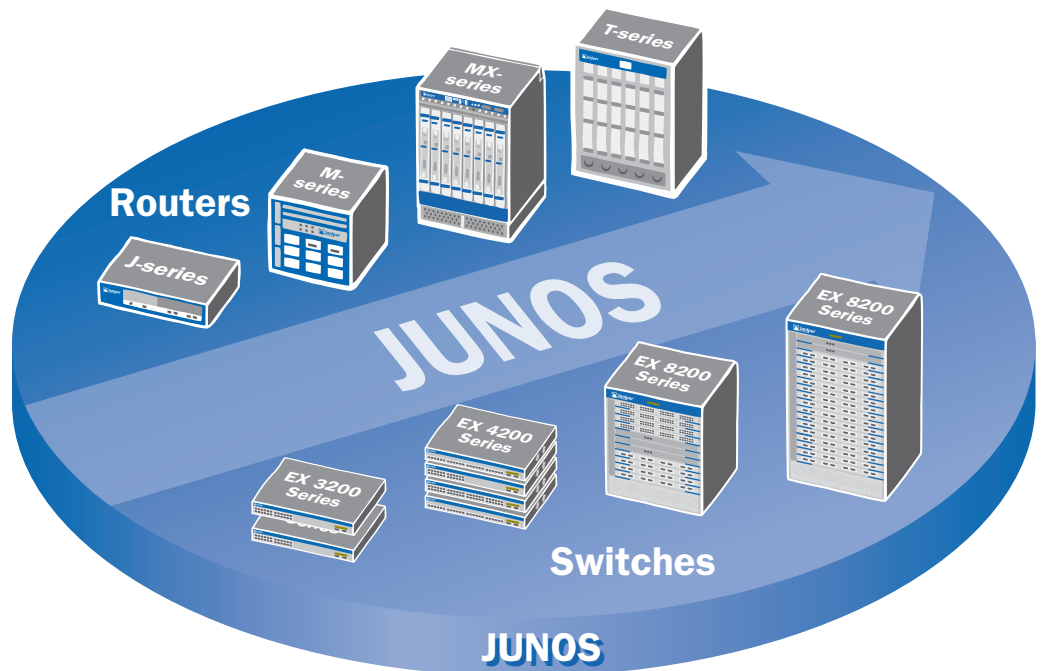


Figure1: JUNOS software – Across
Routing and Switching Platforms

Business Benefits of JUNOS Software

The fundamental design of JUNOS software has allowed it to evolve over the years to accommodate complex application and service needs while continuing to meet stringent performance and reliability requirements. Based on this model, Juniper customers achieve significant business benefits while improving the performance of their networks. Companies leverage:

- A consistent operating system design that makes planning easier, day-to-day operations more intuitive and implementation faster
- Powerful scalability across the entire product line of Juniper routers and switches
- Comprehensive availability and security
- Interoperability with existing network infrastructure to support incremental deployment and leverage current investments
- Simplified network management through multiple supported protocols and standards
- Advanced troubleshooting tools that double-check configurations and other parameters to lower the risk of human error

A 2007 study of network operators quantified the benefits of JUNOS software. When questioned regarding specific operations tasks and the benefits realized from working with JUNOS software, respondents reported significant time savings across multiple categories (see Table 1).

Table 1: Productivity Study Comparing JUNOS Software with its Competitors (Lake Partners 2007)

Network Operations Tasks	Average Time Savings of JUNOS Software
Troubleshooting and Unplanned Events	54 percent
Monitoring and Optimizing	24 percent
Upgrading and Maintenance	23 percent
Adding Infrastructure	29 percent
Total Time Savings With JUNOS Software	25 percent

Organizations using JUNOS software are thus prepared to meet mission-critical business goals, including:

- Achieving higher financial performance based on lower IT operating and capital costs
- Improved total cost of ownership (TCO) due to greater interoperability with existing technologies
- High Availability (HA) and reliability with minimized risk, based on cutting-edge security and recovery technologies
- Improved productivity for IT staff and for personnel across the company
- Increased scalability to accommodate company growth through strategic incremental deployment

CORPORATE HEADQUARTERS
AND SALES HEADQUARTERS
FOR NORTH AND SOUTH AMERICA

Juniper Networks, Inc.
1194 North Mathilda Avenue
Sunnyvale, CA 94089 USA
Phone: 888.JUNIPER (888.586.4737)
or 408.745.2000
Fax: 408.745.2100
www.juniper.net

EAST COAST OFFICE

Juniper Networks, Inc.
10 Technology Park Drive
Westford, MA 01886-3146 USA
Phone: 978.589.5800
Fax: 978.589.0800

ASIA PACIFIC REGIONAL
SALES HEADQUARTERS

Juniper Networks (Hong Kong) Ltd.
26/F, Cityplaza One
1111 King's Road
Taikoo Shing, Hong Kong
Phone: 852.2332.3636
Fax: 852.2574.7803

EUROPE, MIDDLE EAST, AFRICA
REGIONAL SALES HEADQUARTERS

Juniper Networks (UK) Limited
Building 1
Aviator Park
Station Road
Addlestone
Surrey, KT15 2PG, U.K.
Phone: 44.(0).1372.385500
Fax: 44.(0).1372.385501

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Innovation in JUNOS Software

The open, standards-based philosophy and graceful extensibility of JUNOS software provide the flexibility to adapt to new applications and service needs with minimal cost and risk. Juniper aggressively drives JUNOS software innovation through its disciplined development as a single-source network operating system that integrates routing, switching, security and other services. Juniper will continue to leverage its heritage in best-in-class security in delivering JUNOS software innovation.

The modular architecture of JUNOS software streamlines new development and enables complete, holistic integration of newly added services that is much more powerful than the typical bolt-on approach. Additionally, new tools open development of new software applications to licensed customers and partners. By enabling you to do things differently and move quickly, JUNOS software can accelerate your pace of innovation and drive your market leadership.

Summary—JUNOS Software for Your Enterprise

Today's businesses face multiple challenges in remaining competitive and cost-efficient while meeting the demands of secure high performance networking. According to Infonetics Research, large businesses lose an average of 3.6 percent in annual revenue due to network downtime each year, with 50 to 80 percent of this downtime due to human error. A recent study by The Strategy Group showed that the average cost of an impaired network is estimated at \$3 million per day, with 10 percent of respondents estimating more than \$10 million in damages and lost revenues per day.

The JUNOS software operating system offers organizations a powerful, reliable array of features and functionalities to support daily operations, protect against risk, and help to achieve business goals. Based on its powerful 1-1-1 model, JUNOS software provides the most stable, reliable networking resource on the market. By partnering with Juniper Networks, corporations position themselves to address business challenges, safeguard valuable resources, and prepare their company for the future. To learn more, please contact your nearest Juniper Networks representative.

About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at www.juniper.net.



To purchase Juniper Networks solutions, please contact your Juniper Networks sales representative at 1-866-298-6428 or authorized reseller.